



Atty. Docket No.: 30287-50

#9
R. Stahl
11/13/03

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Roberto AIELLO et al.

Serial No.: 09/599,968

Filed: June 21, 2000

For: ULTRA WIDE BAND
BASE BAND RECEIVER

Confirmation No.: 7156

Art Unit: 2631

Examiner: Phuong M. Ph

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Technology Center 2600

San Diego, California
October 21, 2003

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Dear Sir or Madam:

In accordance with 37 C.F.R. § 1.56, Applicants make the below-listed documents of record in the above-identified application. In accordance with 37 C.F.R. § 1.97, this statement is not to be construed as a representation that a search has been made, and is not a representation that the information cited is effective as prior art to the application or is material to patentability.

CERTIFICATE OF MAILING

I hereby certify that this correspondence, and anything being referred to as enclosed herein, is being deposited with the United States Postal Service on the date indicated below as first class mail with sufficient postage in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Date: October 21, 2003

By:

Gregory P. Austin
Gregory P. Austin

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U.S. Patent Documents

1. U.S. Patent No. 3,678,204 to Henning F. Harmuth, issued July 18, 1972;
2. U.S. Patent No. 3,728,632 to Gerald F. Ross, issued April 17, 1973;
3. U.S. Patent No. 4,641,317 to Larry W. Fullerton, issued February 3, 1987;
4. U.S. Patent No. 6,133,876 to Larry W. Fullerton, issued October 17, 2000;
5. U.S. Patent No. 6,178,217 B1 to Anthony Defries et al., issued January 23, 2001;
6. U.S. Patent No. 6,232,910 B1 to David A. Bell et al, issued May 15, 2001;
7. U.S. Patent No. 6,539,213 B1 to James L. Richards et al., issued March 25, 2003.

Other Documents

8. FERNANDO RAMIREZ-MIRELES et al., "N-Orthogonal Time-Shift-Modulated Codes for Impulse Radio, " Communication Sciences Institute, Department of Electrical Engineering-Systems, University of Southern California, Los Angeles, CA 90089-2565 USA, Pages 1-4;
9. FERNANDO RAMIREZ-MIRELES, "On Performance of Ultra Wideband Signals in Gaussian Noise and Dense Multipath," Paper 99C265, Accepted for Publication in the IEEE Transactions on Vehicular Technology, Pages 1-9;
10. HENNING F. HARMUTH, "Fundamental Limits for Radio Signals With Large Bandwidth," IEEE Transactions on Electromagnetic Compatibility, Vol. EMC-23, No. 1, February 1981, Pages 37-43;
11. HENNING F. HARMUTH et al., "Large-Current, Short-Length Radiator for Nonsinusoidal Waves," IEEE International Symposium on Electromagnetic Compatibility, 1983, Pages 453-456;
12. HENNING F. HARMUTH, "Frequency-Sharing and Spread-Spectrum Transmission with Large Relative Bandwidth," IEEE Transactions on

Electromagnetic Compatibility, Vol. EMC-20, No. 1, February 1978, Pages 232-239;

13. HENNING F. HARMUTH, "Applications of Walsh functions in communications," IEEE Spectrum, November 1969, Pages 82-91;
14. AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Integrated, Low-Power, Ultra-Wideband Transceivers for Distributed Position Location and Communication," Technical Abstracts of Proposal to Defense Advanced Research Projects Agency (DARPA), Part I - Technical Proposal, 1998, Pages 1-52; and
15. AETHER WIRE & LOCATION, INC., ROBERT FLEMING et al., "Low-Power, Miniature, Distributed Position Location and Communication Devices Using Ultra-Wideband, Nonsinusoidal Communication Technology," Semi-Annual Technical Report Prepared for: ARPA/FBI, July 1995, Pages 1-40.

* * *

Copies of the above-listed documents, which are listed on the accompanying Form PTO/SB/08, are enclosed.

In accordance with 37 C.F.R. § 1.97(c), this Supplemental Information Disclosure statement shall be fully considered by the U.S. Patent & Trademark Office since Applicants filed after the period specified in 37 C.F.R. § 1.97(b), but before the mailing date of any final action, notice of allowance or an action that otherwise closes prosecution in the application, and is accompanied by the requisite fee as set forth in 37 C.F.R. § 1.17(p) in the amount of \$180.00 (enclosed Check No. 146386).


It is respectfully requested that these documents be (1) fully considered by the U.S. Patent and Trademark Office in the examination of the above-identified application; and (2) printed on any patent which may issue on this application. It is also respectfully requested that a

copy of Form PTO/SB/08, as considered and initialed by the Examiner, be returned to the undersigned with the next communication in accordance with M.P.E.P. § 609.

It is believed that no other fee is required in connection with this submission. In the event that an additional fee is required, please charge our Deposit Account No. 50-2298, in the name of Luce, Forward, Hamilton & Scripps LLP.

Respectfully submitted,

10.21.03
Date



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